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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/829,162	04/22/2004	Hirofumi Dodoro	K06-169665M/TBS	5745
21254 7590 03/23/2007 MCGINN INTELLECTUAL PROPERTY LAW GROUP, PLLC			EXAMINER	
8321 OLD COURTHOUSE ROAD SUITE 200		BORAH		
		·	ART UNIT	PAPER NUMBER
,			1742	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO		03/23/2007	PAPER	

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/829,162	DODORO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Deborah Yee	1742	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this commission.  - If NO period for reply is specified above, the maximum statutory perions are reply within the set or extended period for reply will, by state the provision of the provis	DATE OF THIS COMMUNION 1.136(a). In no event, however, may a road will apply and will expire SIX (6) MON ute, cause the application to become Al	CATION.  eply be timely filed  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).	
Status	•		
1) Responsive to communication(s) filed on 07	December 2006.		
2a) This action is <b>FINAL</b> . 2b) The	nis action is non-final.		
3) Since this application is in condition for allow	vance except for formal matt	ers, prosecution as to the merits is	
closed in accordance with the practice under	r <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) 1 and 2 is/are pending in the applic	ation.		
4a) Of the above claim(s) is/are withdo	rawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exami	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ ad	· · · · · · · · · · · · · · · · · · ·	•	
Applicant may not request that any objection to the	-··	·	
Replacement drawing sheet(s) including the corre	,	, , ,	1.
11) The oath or declaration is objected to by the □	Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreig a)□ All b)□ Some * c)⊠ None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority docume			
2. Certified copies of the priority docume		· · ——	
3. Copies of the certified copies of the pr	•	received in this National Stage	
application from the International Bure  * See the attached detailed Office action for a list		received	
dee the attached detailed office action for a fix	st of the certified copies not	received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		iummary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		s)/Mail Date  Iformal Patent Application	
Paper No(s)/Mail Date	6) 🔲 Other:		

Application/Control Number: 10/829,162 Page 2

Art Unit: 1742

#### **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12-07-06 has been entered.

### Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al (US Patent 5,998,042) or Tanaka et al (US Patent 6,086,686).
- 4. Tanaka '042 on lines 45-55 of column 6 and Tanaka '686 on lines 25-54 in column 6 disclose a bearing steel alloy having a composition with constituents whose wt% ranges overlap or close approximate those recited by claim 1; such similarities in wt% ranges establishes a prima facie case of obviousness because it would be obvious to one of ordinary skill in the art to select the claimed alloy wt% ranges over the broader

Application/Control Number: 10/829,162 Page 3

Art Unit: 1742

disclosure of the prior art since the same utility (roller bearing) and similar properties (excellent acoustic characteristics ) are taught, see MPEP 2144.05.

- 5. Even though prior art steel contains a lower limit of 10%Cr whereas the present invention recites 5 to 9%Cr, such would not be a patentable difference since applicant has not demonstrated (e.g. by comparative test data) that the more narrowly claimed Cr range is somehow critical and productive of new and unexpected results. Note applicant's specification on page 4 discloses Cr content should be 5 to 15%, preferably 6 to 11 and more preferably 9 to 10%. Hence there is nothing to show that the newly claimed Cr range of 5 to 9% is critical or that it involves anything more than judicious selection.
- 6. Also similar to applicant, Tanaka teaches adding Cr to improve dampability but Cr needs to be restricted because excessive amounts create the presence of coarse eutectic carbides that adversely affect the acoustic performance of rolling bearings.
- 7. Tanaka'042 on lines 45-60 in column 17 and Tanaka'686, lines 1-9 in column 26 disclose producing steel bearing in the same manner as recited by claim 1 comprising the steps of austenitizing, oil quenching, subzero cooling and tempering.
- 8. Also Tanaka'042, Table 4A in column 23 and Tanaka'686, Table 17 of column disclose steel having a hardness value of at least HRC57 and hence meet claim 2.

Application/Control Number: 10/829,162 Page 4

Art Unit: 1742

## Response to Arguments

9. Applicant's arguments filed 12-07-06 have been fully considered but they are not persuasive. It was submitted that newly amended claims recite a more narrowly claimed Cr range of 5 to 9% in order to improve dampability. It is the examiner's position that to distinguish claims over prior art, applicant will need to demonstrate Cr range is somehow critical and productive of new and unexpected results by providing comparative test data. Test data needs to show steel containing Cr slightly outside 5 to 9% has inferior dampability in comparison to steels containing Cr within the 5 to 9%.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 571-27211253. The examiner can normally be reached on monday-friday 6:00am-2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/829,162

Art Unit: 1742

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner

Art Unit 1742